

Product datasheet for TP300464L

Hexokinase 1 (HK1) (NM_000188) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human hexokinase 1 (HK1), nuclear gene encoding mitochondrial protein, transcript variant 1, 1 mg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC200464 representing NM_000188 Red =Cloning site Green =Tags(s) |

MIAAQLLAYFTELKDDQVKKIDKYLYAMRLSDETLLIDIMTRFRKEMKNGLSRDFNPTATVKMLPTFVRS
IPDGSEKGFIALDLGGSSFRILRVQVNHEKNQNVHMESEVYDTPENIVHSGSGLFDHVAECLGDFMEK
RKIKDKKLPVGFTFSPCQQSKIDEAILITWTKRFKASGVEGADVKLLNKAIKKRGDYDANIVAVVNDT
VGTMMTCGYDDQHCEVGLIIGTGTNACYMEELRHIDLVEGDEGRMCINTEWGAFGDDGSLEDIRTEFDRE
IDRGSLNPGKQLFEKMOVSGMYLGELVRLILVKMAKEGLLFEGRITPELLTRGKFNTSDVSAIEKNKEGLH
NAKEILTRLGVEPSDDDCVSVQHVCIVSFRSANLVAATLGAILNRLRDNKGTPLRRTTVGVDGSLYKTH
PQYSRRFHKTLRRLVPDSDVRFLLSESGSGKGAAMVTAVAYRLAEQHRQIEETLAHFHLTKDMLLEVKKR
MRAEMELGLRKQTHNNAVVKMLPSFVRRTPDGTENGDFLALDLGGTNFRVLLVKIRSGKKRTVEMHNKIY
APIEIMQGTGEELFDHIVSCISDFLDYMGIKGPRMPLGFTFSFPCQQTSLDAGILITWTKGFKATDCVG
HDVVTLLRDAIKRREEFDLVAVVNDTVGTMTCAYEPTCEVGLIVGTGSNACYMEEMKNVEMVEGDQ
GQMCINMEWGAFGDNGCLDDIRTHYDRLVDEYSLNAGKQRYEKMISGMYLGEIVRNILIDFTKKGFLFRG
QISETLKTRGIFETKFLSQIESDRLALLQVRAILQQLGLNSTCDDSSILVKTVCGVSRRAAQLCGAGMAA
VVDKIRENRGLDRLNVTVGVDGTYLKLHPHFSRIMHQTVKELSPKCNVSFLLSEDSGSGKGAALITAVGVR
LRTEASS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

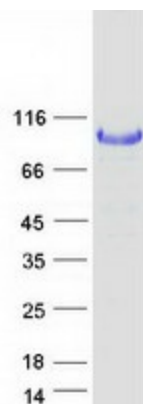
| | |
|----------------|---|
| Tag: | C-Myc/DDK |
| Predicted MW: | 102.3 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |



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| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_000179 |
| Locus ID: | 3098 |
| UniProt ID: | P19367 , Q59FD4 , B3KXY9 , A8K7J7 |
| RefSeq Size: | 3580 |
| Cytogenetics: | 10q22.1 |
| RefSeq ORF: | 2751 |
| Synonyms: | hexokinase; HK; HK1-ta; HK1-tb; HK1-tc; HKD; HKI; HMSNR; HXK1; NEDVIBA; RP79 |
| Summary: | Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. This gene encodes a ubiquitous form of hexokinase which localizes to the outer membrane of mitochondria. Mutations in this gene have been associated with hemolytic anemia due to hexokinase deficiency. Alternative splicing of this gene results in several transcript variants which encode different isoforms, some of which are tissue-specific. [provided by RefSeq, Apr 2016] |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Insulin signaling pathway, Metabolic pathways, Starch and sucrose metabolism, Type II diabetes mellitus |

Product images:



Coomassie blue staining of purified HK1 protein (Cat# [TP300464]). The protein was produced from HEK293T cells transfected with HK1 cDNA clone (Cat# [RC200464]) using MegaTran 2.0 (Cat# [TT210002]).